

eLation Nation

eLation Cross Platform Mobile Apps for
Innovative Systems, LLC


Overview

Product Description: The cross platform mobile apps allow customers to utilize the eLation eBill application on their Android and iOS mobile devices.

Features:

- ▶ Secure method of logging into the device
- ▶ Changeable account settings
- ▶ Access to previous billing invoices/service summaries
- ▶ Payment processing
- ▶ Usage statistics
- ▶ Support information

Key Business Goals:

- ▶ Add appeal to the already existing eLation product
 - ▶ Make app intuitive/easy to use
 - ▶ Maintain same look and feel between platforms
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User Stories

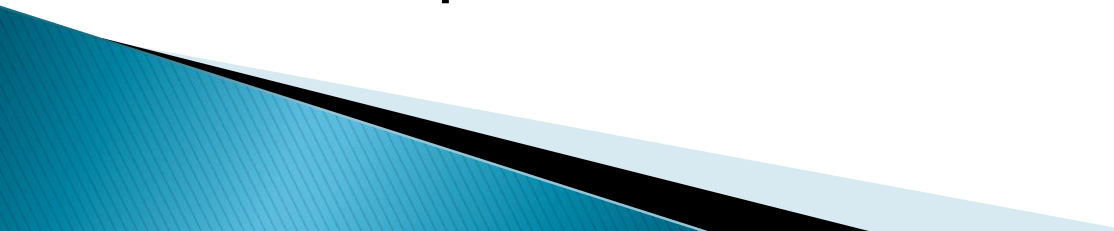
User Stories

- ▶ As a customer with a telecom that uses Innovative Systems products, I want to change information on my account <change email, change password> from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I want to see my <latest, past> invoice for my account from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I want to see a summary of my service for my account from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I want to see the current balance for my account from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I want to make a payment on my balance for my account from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I want to set up recurring payments for my account from my <iOS device, Android device>.

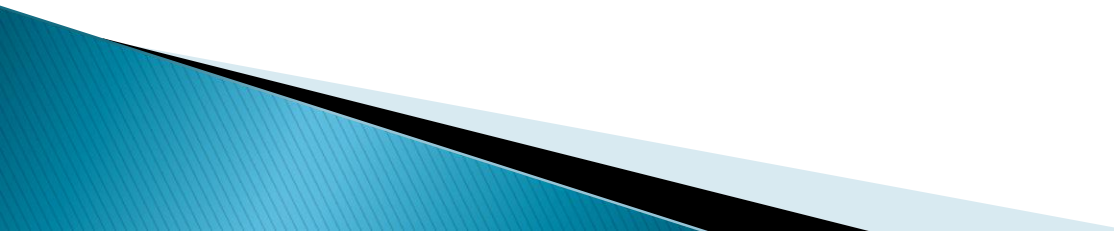
Business User Stories

- ▶ As a customer with a telecom that uses Innovative Systems products, I want to get contact information for the support for my company from my <iOS device, Android device>.
- ▶ As a customer with a telecom that uses Innovative Systems products, I have multiple accounts for both my business and my home with the same telecom. I want to be able to easily access the mobile application for both accounts from my <iOS device, Android device>.
- ▶ As a telecom that uses Innovative Systems products, I want my customers to see a banner that displays my telecom's name on the mobile apps that my customers use to check their account information.

Backlog Categories

- ▶ API Work
 - ▶ Device UI Work
 - ▶ Device UI Back End
 - ▶ Database
 - ▶ Sign In
 - ▶ Logging
 - ▶ PDF Implementation
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Challenges

- ▶ Multi-platform Applications
 - Similar Interface
 - Different Languages
 - Different Devices
 - ▶ Interfacing with existing services
 - ▶ PDF display and usage
 - ▶ Multiple Account handling
 - ▶ Tablet and Mobile Device Compatibility
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Risks

- ▶ API Not Complete

Risk Mitigation

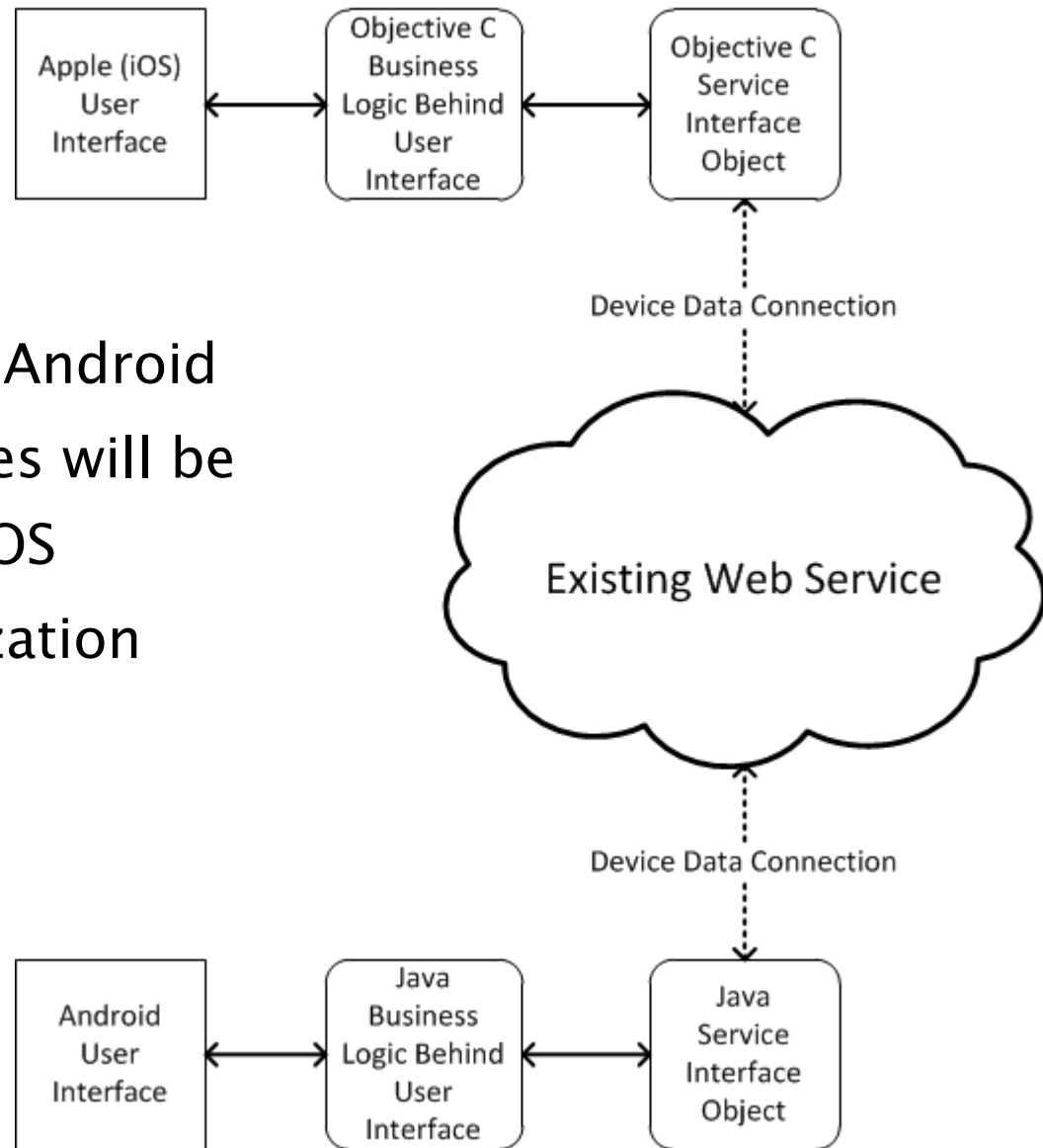
- ▶ Weekly communication with API Team
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Architecture

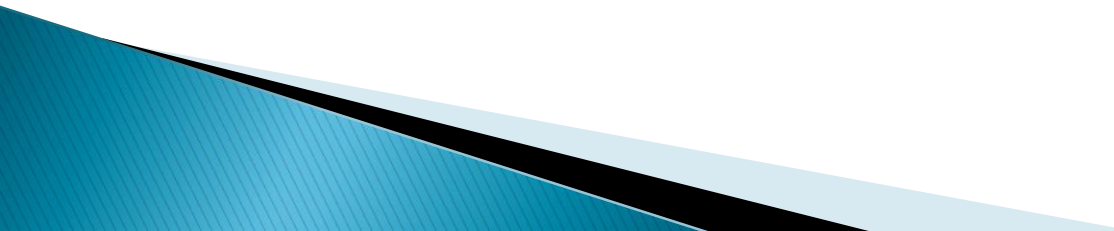
▶ APIs

- Libraries exist within Android
- Some external libraries will be needed for JSON on iOS
- OAuth, open authorization protocol

▶ Asynchronous Calls

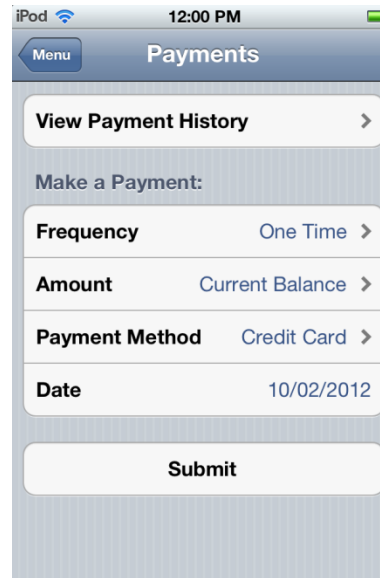
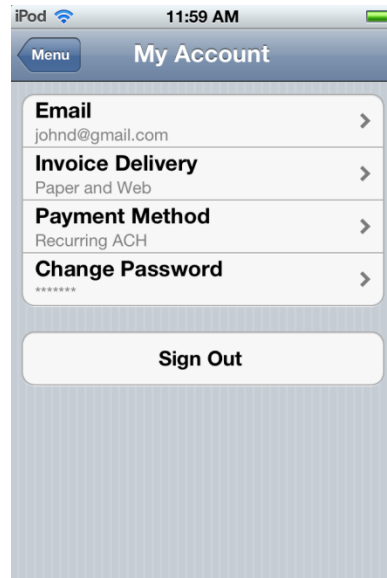


Tools

- ▶ Using two Mac's and two PCs for development
 - ▶ Android
 - Eclipse, Android SDK
 - Samsung Galaxy SIII, Nexus 7, Droid Pro II
 - ▶ iOS
 - Xcode, StoryBoard
 - iPod, iPad
 - ▶ Web Service
 - API via JSON
 - ▶ Repositories
 - Versions SVN: Code Repository
 - GitHub: Documentation
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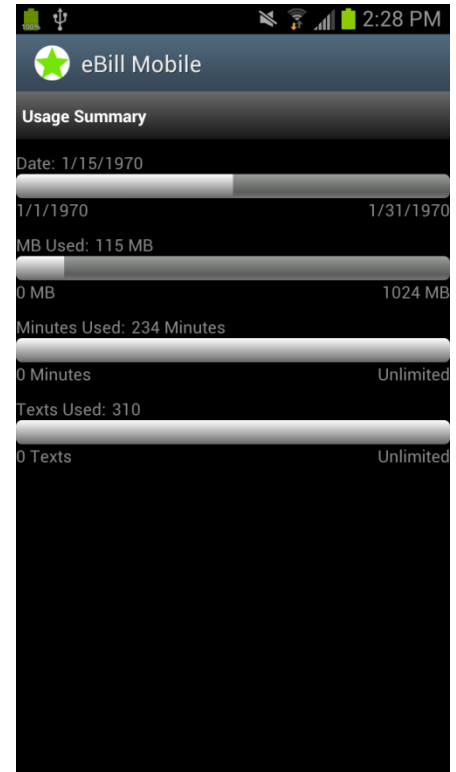
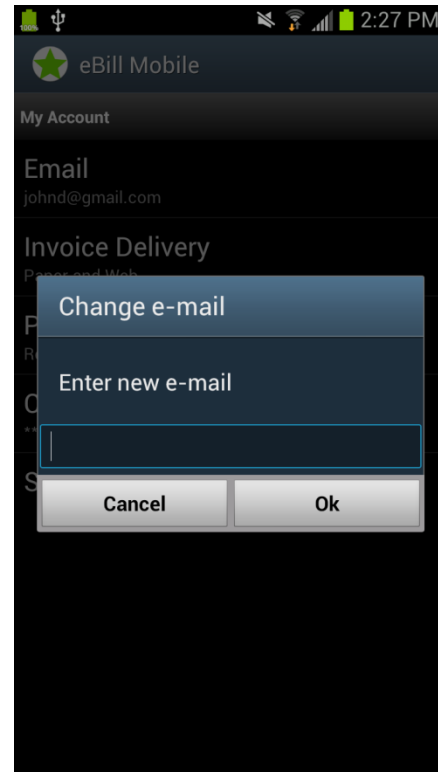
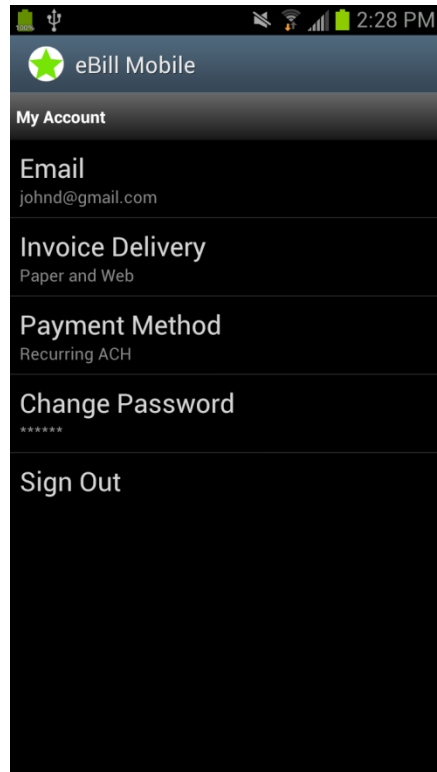
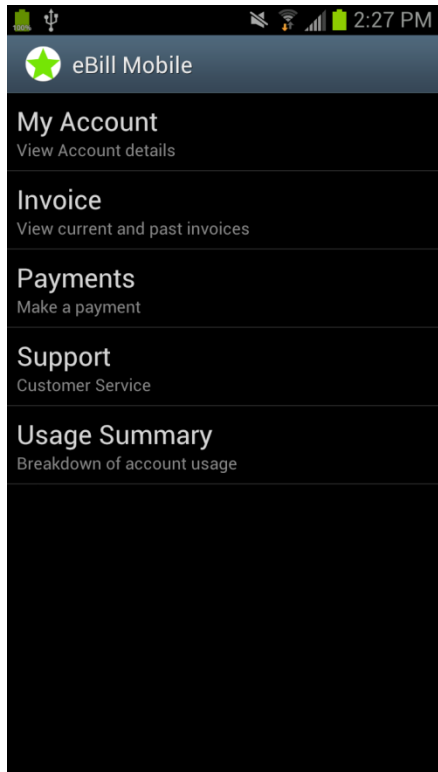
iOS App Design

► High Level Layout



Android App Design

► High Level Layout



Testing

- ▶ Unit Testing
 - JUnit and Sen Testing Kit
- ▶ System Testing
 - Testing on devices
 - Network Issues

Sprint 1

September 19, 2012 – October 3, 2012

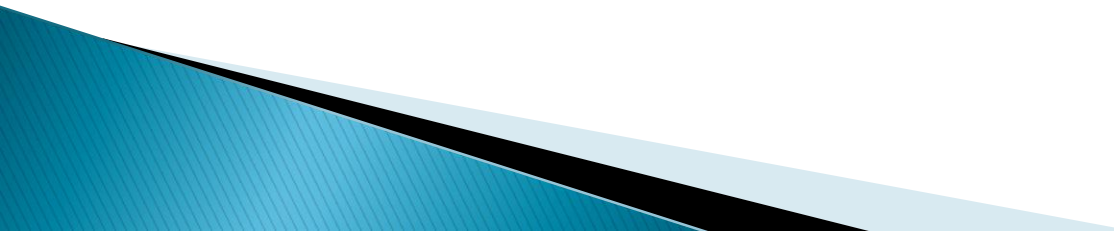
- ▶ **Environment Setup**
 - Set up IDEs on Mac, Windows
 - Set up code repository
- ▶ **Development**
 - Build test JSON communication to Android and iOS devices
 - Build Android and iOS layout
- ▶ **Documents**
 - Team Name
 - Design Document
 - Software Contract
 - Mission Statement
 - CONOPS
 - User Stories

Sprint 2

October 10, 2012 – October 31, 2012

- ▶ **Environment**
 - Get eBill service installed on local server for testing
- ▶ **Development**
 - Finish Android and iOS UI
 - Investigate PDF on Android and iOS
 - Implement API calls
 - Android UI back end
- ▶ **Documents**
 - Master UI Document

Budget

- ▶ Hours Worked
 - ▶ Sunk Costs
 - Mobile Devices
 - Development Machines
 - Development Server
 - API Development
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Questions?

